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| APPLICATION NO.                           | FILING DATE     | FIRST NAMED INVENTOR  | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-----------------------|---------------------|------------------|
| 10/797,469                                | 03/09/2004      | William T. Rapczynski | 20051/0200488-US0   | 3310             |
| 7278                                      | 7590 03/16/2006 |                       | EXAM                | NER              |
| DARBY & DARBY P.C.                        |                 |                       | WERNER, JO          | NATHAN S         |
| P. O. BOX 5257<br>NEW YORK, NY 10150-5257 |                 |                       | ART UNIT •          | PAPER NUMBER     |
|   |                 | •                     | 3732                |                  |

DATE MAILED: 03/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| •   |   | 0  |
|---|---|--|
|   | Application No.   | Applicant(s)   |
|   | 10/797,469  | RAPCZYNSKI, WILLIAM T.   |
| Office Action Summary   | Examiner  | Art Unit   |
|   | Jonathan Werner   | 3732   |
| The MAILING DATE of this communication Period for Reply   | appears on the cover sheet w  | ith the correspondence address   |
| A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MOI atute, cause the application to become A | CATION. reply be timely filed  NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133). |
| Status  |   |  |
| 1) Responsive to communication(s) filed on  |   |  |
| ·— · · —  | This action is non-final.   |  |
| 3) Since this application is in condition for allo  |   | ters, prosecution as to the merits is  |
| closed in accordance with the practice und  |   |  |
| Disposition of Claims   |   |  |
| 4)⊠ Claim(s) <u>1-23</u> is/are pending in the applicat   | ·<br>ion  |  |
| 4) Of the above claim(s) is/are with  |   | •  |
| 5) Claim(s) is/are allowed.   | GIGHTI IIOIII CONSIGEIGUOII.  | •  |
| 6)⊠ Claim(s) <u>1-23</u> is/are rejected.   |   |  |
| 7)  |   |  |
| 8) Claim(s) are subject to restriction ar   | nd/or election requirement  |  |
| or subject to restriction at  | iaror ciconom roquiromoni.  |  |
| Application Papers  | •   |  |
| 9) The specification is objected to by the Exan   |   |  |
| 10) ☐ The drawing(s) filed on is/are: a) ☐  | •   |  |
| Applicant may not request that any objection to   |   |  |
| Replacement drawing sheet(s) including the co   |   |  |
| 11)☐ The oath or declaration is objected to by the  | e Examiner. Note the attache  | d Office Action or form PTO-152.   |
| Priority under 35 U.S.C. § 119  |   |  |
| •   | oian priority under 25 H C C  | 8 119(a)-(d) or (f)  |
| 12) Acknowledgment is made of a claim for fore  | aight phontry under 35 0.5.C.   | 3 113(a)-(a) of (i).   |
| a) All b) Some * c) None of:  | anto have been received   |  |
| 1. Certified copies of the priority docum   |   | A anticotion No  |
| 2. Certified copies of the priority docum   | •   |  |
| 3. Copies of the certified copies of the  |   | n received in this National Stage  |
| application from the International Bu   |   |  |
| * See the attached detailed Office action for a   | list of the certified copies no   | t received.  |
|   |   |  |
| Attachment(s)   |   |  |
| 1) 🔯 Notice of References Cited (PTO-892)   |   | Summary (PTO-413)  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948  | , <u> </u>  | (s)/Mail Date Informal Patent Application (PTO-152)  |
| <ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SE<br/>Paper No/s)/Mail Date 7/28/05.</li> </ol>  | 3/08) 5) ☐ Notice of 6) ☐ Other:  | ······································   |

#### **DETAILED ACTION**

### Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 7/28/05 is noted. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3-8, 12-15 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Sterrett et al. (US 5,049,068). As to claims 1, 3-4, 12-13 and 17, Sterrett discloses an apparatus for applying a light to a tooth with a restorative material attached to it comprising an illumination system with a control module (Figure 7), a light source (82) arranged in the control module, and a light-projecting device (80) that projects light on a tooth being treated, wherein said light comprises at least an ultraviolet component in combination with visible light (column 2, line 61-63), and the light is projected from the light source to the light projecting device through a flexible light conduit (Figure 7). As to claims 5-7, the combination comprises continuous ultraviolet light with continuous visible light or pulsating ultraviolet light with continuous visible

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light or continuous ultraviolet light with pulsating visible light (column 3, lines 54-60; column 4, lines 16-31 & lines 57-68). As to claims 8 and 14, the combination of light comprises alternating pulses of visible and ultraviolet light (column 2, lines 63-64; column 5, lines 6-7). As to claim 15, the light-projecting device is part of a dental handpiece (80).

- 3. Claims 12 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Caplan et al. (US 5,667,291). As to claim 12, Caplan discloses an apparatus for applying a light to a tooth with a restorative material attached to it comprising an illumination system with a control module (column 11, lines 4-8), a light source (column 7, line 54), and a light-projecting device (24) that projects light on a tooth being treated, wherein said light comprises at least an ultraviolet component (column 11, lines 13-15). As to claim 16, the light-projecting device is part of a headset (column 6, lines 14-17).
- 4. Claims 1-2, 4, 9-12, 15 and 18-22 are rejected under 35 U.S.C. 102(a) as being anticipated by Fischer et al. (US 2003/0215766). As to claims 1, 4 and 12, Fischer discloses an apparatus for applying a light to a tooth with a restorative material attached to it comprising an illumination system with a control module (108), a light source (114), and a light-projecting device (100) that projects light on a tooth being treated, wherein said light comprises at least an ultraviolet component (paragraph 0121). As to claim 2, the dental restoration comprises a filling and the restorative material comprises a composite filling material (256). As to claim 15, the light-projecting device is part of a dental handpiece (Figure 1). As to claim 18, the light source is arranged in the light-projecting device (Figure 1), and the light source is powered from the

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control module through an electrical cable (112). As to claim 19, the light source comprises at least one light-emitting diode (paragraph 0062). As to claim 20, the light-emitting diode emits ultraviolet light (paragraph 0121). As to claims 11 and 21, the control module has a user interface that consists of a manually operated control (paragraph 0065). As to claims 9-10 and 22, the user interface is operative to control the intensity of the light (paragraph 0065). Examiner notes that claim 22 recites an intended use of the apparatus, and as such is considered as functional language and therefore is given little patentable weight.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sterrett or Fischer in view of Lehrer (US 2002/008372). Both Sterrett and Fischer disclose the apparatus as previously described, but fail to show the illumination system comprises a further light-projecting device that is part of a headset in combination with the light-projecting device in the handpiece. Lehrer teaches a light-projecting device that be used as a handpiece or in combination with a headset (Figures 9-11). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the applicant's invention to combine the handpiece light device with the headset light device in order to make it easier for a medical practitioner to perform an operation as taught by Lehrer.

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#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please refer to included form PTO-892 for all additional pertinent prior art related to light-emitting devices for dentistry.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Werner whose telephone number is (571) 272-2767. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Werner

Examiner AU 3732

3/10/06

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